CONTENTS

Preface v
Acknowledgments vi

Extra-neuroleptic effects of D_1 dopamine receptor antagonists
A. Barnett, E.H. Gold, R.E. Chipkin and L.C. Iorio 1

Distribution and modulation of the D_2 dopamine receptor mRNA in mouse brain: molecular and behavioral correlates
B. Weiss, L-W. Zhou, J.F. Chen, F. Szele and G. Bai 9

Dopamine and drug induced motivation
G. di Chiara, E. Acquas and E. Carboni 27

Role of the nucleus accumbens in drug dependence: implications for affective disorders
L. Pulvirenti and G.F. Koob 39

Dopamine and the neural substrates of reward: implications for the mechanisms of action of antidepressant drugs
H.C. Fibiger, A.G. Phillips and C.D. Blaha 51

The forced swimming tests: its contribution to the understanding of the mechanisms of action of antidepressants
F. Borsini and A. Meli 63

Dopaminergic and non-dopaminergic mechanisms of antidepressant drug action in realistic animal models
P. Willner, D. Sampson, G. Phillips and R. Muscat 77

Role of dopamine neurotransmission in the effect of neuropeptides in experimental models of depression
F. Drago, L. Pulvirenti and F. Spadaro 91

GRB 12909: a new potent and selective dopamine uptake inhibitor
E.B. Nielsen and P.H. Anderson 101

Dopamine, depression and presynaptic receptors
P.M. Groves, C. Okuda and M. Diana 109

On the mechanism involved in the behavioral supersensitivity to DA-agonists induced by chronic antidepressants
G. Serra, M. Collu, P.S. d'Aquila, M.G. de Montis and G.L. Gessa 121

Behavioral effects of antidepressant drugs given repeatedly on the dopaminergic system
J. Maj 139

Possible role of DA receptors in the mechanism of action of antidepressants
M.G. de Montis, P. Devoto, G.L. Gessa, A. Porcella, G. Serra and A. Tagliamonte 147

The effect of antidepressant drugs given repeatedly on the binding of ^{3}H-SCH 23390 and ^{3}H-spiperone to dopaminergic receptors
V. Klimek and J. Maj 159

Antidepressant drugs and sodium-coupled presynaptic monoaminergic transporters
S.Z. Langer, H. Esnaud and D. Graham 167

Clinical evidence for a role of dopaminergic system in depressive syndromes
M. del Zompo, A. Bocchetta, F. Bernardi, C. Burrai and G.U. Corsini 177

Blockade of DA autoreceptors: possible mechanism of antidepressant action of L-sulpiride
G. Serra, A. Forgione, P.S. d'Aquila, M. Collu, W. Fratta and G.L. Gessa 185

Effects of chronic treatment with L-sulpiride on dopamine receptor and β-adrenoreceptor function in rat striatum and frontal cortex
C. Missale, S. Sigala, P. Rizzonelli, E. Zanelli, A. Forgione, M.O. Carruba and P-F. Spano 193

Subject Index 203